



Product: [RSRK 30-645](#)

7/8" - Male 0° | #Contacts: 3 | 7/8" - Female 0° | #Contacts: 3 | 300 V | Cable: Yellow (PUR); 18 AWG; IEC | cURus

Product Description

Double-Ended Cordset | 7/8"- Male Straight | #Contacts: 3 | 7/8"- Female Straight | #Contacts: 3 | 300 V / 8 A | Cable: PUR Yellow; 3x18 AWG; IEC | UL 2238; cURus

Technical Specifications

Face View Side 1

Pin 1	Pin 2	Pin 3
black	brown	blue

Face View Side 2

Pin 1	Pin 2	Pin 3
black	brown	blue

Product Description

Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding:	Unshielded
Rated Voltage:	300 V
Rated Current*:	8 A

Technical Data Side 1

Product Sub Family:	7/8" (2, 3, 4, 5, 6 contacts)
Type of Contact / Gender:	Pin Contact / Male
Connector Design:	7/8" Male 3 Pole 0°
Attachment Type:	Male Thread (round coupling screw)
Number of Pins:	3
Coding:	A
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 ⁹ Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C to + 90°C
Protection Degree / IP Rating**:	IP65, IP67
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material:	Brass (CuZn)
Contact Plating:	Copper-Silver-Gold-Alloy (Cu/Ag/Au)
Contact Bearer Material:	Thermoplastic polyurethane (TPU)
Contact Bearer Color:	Yellow
Flammability Class (Contact Bearer):	UL 94 HB
Molded Body Material:	Thermoplastic polyurethane (TPU)
Molded Body Color:	Yellow

Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	Aluminum (Al)
Attachment Plating:	Anodized Black
Fastening Torque (Attachment):	7/8": 70 Ncm, hand-tight

Cable Data

Cable Number:	645
Conductor Size:	18 AWG
Number of Wires:	3
Minimal Bending Radius (Fixed Inst):	> 5 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 5 mio
Conductor material:	Cu
Cable Jacket Material:	Polyurethane (PUR)
Cable Jacket Color:	Yellow
Cable Diameter D:	Ø 5.59 mm (.220")
Wire Insulation Material:	Polyvinyl Chloride (PVC)
Insulated Wire Diameter:	Ø 1.65 mm (0.065")
Ambient Temperature (Fixed Installation):	- 40 °C to +80 °C
Ambient Temperature (Flex Installation):	- 20 °C to +80 °C
UL Cable Type:	AWM: 20233 AWM Class I/II A/B
Flammability Class (Cable Jacket):	UL VW-1 / CSA FT-1
Cable Characteristics:	Flexibility: Excellent Abrasion Resistance: Excellent Oil & Chemical Resistance: Excellent UV Resistance: Good to excellent Low Temp Performance: Excellent (flexible to -25°C) Flame Retardance: Varies Halogen-Free: Yes Mechanical Durability: High (resists impact, tear, and flex) Environmental Suitability: Outdoor, oily, wet, or rough environments

Technical Data Side 2

Product Sub Family, Side 2:	7/8" (2, 3, 4, 5, 6 contacts)
Type of Contact / Gender, Side 2:	Socket Contact / Female
Connector Design, Side 2:	7/8" Female 3 Pole 0°
Attachment Type, Side 2:	Female Thread (round coupling nut)
Number of Pins, Side 2:	3
Coding, Side 2:	A
Contact Resistance, Side 2:	≤ 10 mOhm
Insulation Resistance, Side 2:	> 10^9 Ohm
Mating Cycles, Side 2:	≤ 100
Ambient Temperature (Operation), Side 2*:	- 40 °C to + 90°C
Protection Degree / IP Rating, Side 2**:	IP65, IP67
Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material, Side 2:	Brass (CuZn)
Contact Plating, Side 2:	Copper-Silver-Gold-Alloy (Cu/Ag/Au)
Contact Bearer Material, Side 2:	Thermoplastic polyurethane (TPU)
Contact Bearer Color, Side 2:	Yellow
Flammability Class (Contact Bearer), Side 2:	UL 94 HB
Molded Body Material, Side 2:	Thermoplastic polyurethane (TPU)
Molded Body Color, Side 2:	Yellow
Flammability Class (Molded Body), Side 2:	UL 94 HB
Attachment Material, Side 2:	Aluminum (Al)
Attachment Plating, Side 2:	Anodized Black

Fastening Torque (Attachment), Side 2:	7/8": 70 Ncm, hand-tight
Note, Side 2:	Do not connect / disconnect under load.

Approvals

UL-File:	E315587
UL:	UL 2238; cURus

Safety & Environmental Compliance

RoHS Compliant:	Yes
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Resistances

Halogenfree:	No
Oil Resistance:	Yes

Notes

Protection Degree / IP Rating Note:	IP Rating tested according to IEC standard using combination of a Hirschmann or Lumberg Automation connector mounted and locked
Note Derating:	* Notice derating

Variants

Item #	Item Description	Cable Length
500001799	RSRK 30-645/0.3M	0.3 m
500001800	RSRK 30-645/0.6M	0.6 m
500001801	RSRK 30-645/1M	1 m
500001802	"RSRK 30-645/1.5M"	1.5 m
500001803	RSRK 30-645/2M	2 m
500001805	RSRK 30-645/5M	5 m
500003308	RSRK 30-645/10M	10 m
500004447	RSRK 30-645/30M	30 m

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